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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPOSITIONS, SPLICE VARIANTS AND METHODS RELATING TO OVARIAN SPECIFIC GENES AND PRO-**TEINS** 

2004/053079 (57) Abstract: The present invention relates to newly identified nucleic acid molecules and polypeptides present in normal and neoplastic ovarian cells, including fragments, variants and derivatives of the nucleic acids and polypeptides. The present invention also relates to antibodies to the polypeptides of the invention, as well as agonists and antagonists of the polypeptides of the invention. The invention also relates to compositions containing the nucleic acid molecules, polypeptides, antibodies, agonists and antagonists of the invention and methods for the use of these compositions. These uses include identifying, diagnosing, monitoring, staging, imaging and treating ovarian cancer and non-cancerous disease states in ovarian, identifying ovarian tissue, monitoring and identifying and/or designing agonists and antagonists of polypeptides of the invention. The uses also include gene therapy, production of transgenic animals and cells, and production of engineered ovarian tissue for treatment and research.



# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/38855

A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : C12N 15/12, 15/11, 15/00; C12Q 1/68; C12P 21/02; A61K 31/7088, 31/711 US CL : 536/23.1, 23.5; 435/6, 320.1, 69.1; 514/44					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 536/23.1, 23.5; 435/6, 320.1, 69.1; 514/44					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Compugen, SEQ ID NOs: 1 and 129					
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where ap		Relevant to claim No. 1-6, 8, and 9		
<u>х</u> - Y	sequence Tags. Proceedings of the National Academy Vol. 97, No. 7, pages 3491-3496, see especially the	TO, E.D. et al, Shotgun sequencing of the human transcriptome with ORF expressed ence Tags. Proceedings of the National Academy of Science, USA. 28 March 2000, 97, No. 7, pages 3491-3496, see especially the alignment attached to the reference expare SEQ ID NO: 1, nucleotides 221-522 to BX281918, nucleotides 1-302).			
	documents are listed in the continuation of Box C.	See patent family annex.			
* <del>S</del>	Special categories of cited documents:	"T" later document published after the inte date and not in conflict with the applic	ation but cited to understand the		
	t defining the general state of the art which is not considered to be	principle or theory underlying the inve			
"E" earlier ap	optication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be conside when the document is taken alone			
	at which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as )	"Y" document of particular relevance; the considered to involve an inventive step combined with one or more other such	when the document is		
"O" documen	at referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in th	e art		
priority o	u published prior to the international filing date but later than the date claimed	"&" document member of the same patent	A		
Date of the actual completion of the international search		Date of mailing of the international sear	ch report		
	005 (11.01.2005)	Authorized officer	77		
Ma Co P.C Ald	hailing address of the ISA/US hail Stop PCT, Attn: ISA/US mmissioner for Patents D. Box 1450 exandria, Virginia 22313-1450 o. (703) 305-3230	Authorized officer  James Martinell  Telephone No. 571-272-1600	Wax		

# INTERNATIONAL SEARCH REPORT

International application No.
PCT/US03/38855

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)				
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1. Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:				
Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:				
Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)				
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)				
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet				
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.				
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:				
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-10 and 15-18 as they pertain to nucleic acids encoding SEQ ID NO: 129  Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.				

	INTERNATIONAL SEARCH REPORT	PCT/US03/38855
	BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LAC This application contains the following inventions or groups of inventions which are concept under PCT Rule 13.1. In order for all inventions to be examined, the appr	re not so linked as to form a single general inventive ropriate additional examination fees must be paid.
1	Group I, claim(s) 1-10 and 15-18, drawn to nucleic acids, nucleic acid molecular horoducing polypeptides, kits, vaccines, and methods of treatment using nucleic acid	hybridization assays, vectors, host cells, methods for ds.
ļ	Group II, claim(s) 11, 12, and 16-18, drawn to polypeptides, kits, vaccines, and m	nethods of treatment using polypeptides.
	Group III, claim(s) 13-15, drawn to antibodies and protein binding assays.	
	The inventions listed as Groups I-III do not relate to a single general inventive con 13.2, they lack the same or corresponding special technical features for the follow nucleic acid containing kits, nucleic acid vaccines, and methods of treatment using features of the properties of SEQ ID NOs: 129-295 or nucleic acid sequences that either of Groups II or III. Group II is directed to polypeptide, polypeptide vaccine have the special technical features of SEQ ID NOs: 1-128 or sequences that are en by Groups I or III. Since each of the three Groups mentions or requires the use of polypeptides, the total number of inventions is 3 x 295 = 885.	ing reasons: The nucleic acids, vectors, host cells, nucleic acids of Group I all have the special technical encode SEQ ID NOs: 1-128, which are not shared by es, and methods of treatment using polypeptides that all ecoded by SEQ ID NOs: 129-295, which are not shared
	Each of the Groups mentions or requires the use of a large number (295) of separa matter which additional Group(s) applicant elects, applicant is further required to for search. In any event, the first mentioned SEQ ID NO in Group I will be search requires one additional search fee per SEQ ID NO. In the absence of payment of ID NO in Group I will be searched. Should applicant pay fee(s) for additional Growthin the selected Group will be searched unless applicant directs otherwise.	select for search one SEQ ID NO within the Group(s) ched. Any additional SEQ ID NO to be searched additional search fee(s) only the first mentioned SEQ